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22 December 1970

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MEMORANDUM FOR: Chief, Strategic Forces Division, OSR

ATTENTION :

THROUGH :

SUBJECT :

Chief, Requirements Branch, Reconnaissance Group, IRS

Enumeration and Functional Typing of Buildings at
Soviet ICRM Complex Rail-to-Road Transfer Points
NPIC Project 250673

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1. This memorandum is in partial response to your requirement requesting a detailed study of the facilities at Soviet ICRM complexes. An analysis of the rail-to-road transfer point at nine of the ten complexes with SS-11 missiles is presented. It includes the function, size, capacity, and building type of each major missile-related building at the complexes. They are Drovyanaya, Gladkaya, Kostroma, Olovyanaya, Perm, Svobodnyy, Tatishchevo, Teykovo, and Yedrovo. The Tatishchevo complex has only the SS-11 missile while the other eight complexes have both the SS-11 and the SS-7 missile. An analysis of the rail-to-road transfer point at the tenth complex, Kozelsk, with the SS-11 and SS-7 missiles, is presented under [redacted]

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2. Sixty-one different major missile-related building types were identified at the nine rail-to-road transfer points (RTPs). These building types are listed in Table 1 which is keyed to the annotated photographs of the individual complexes (Attachments 1-10) and to the drawings of the building types (Attachment 11).

3. The total number of missile-related buildings at each complex is:

| | |
|-------------|----|
| Drovyanaya | 51 |
| Gladkaya | 45 |
| Kostroma | 42 |
| Olovyanaya | 46 |
| Perm | 47 |
| Svobodnyy | 39 |
| Tatishchevo | 31 |
| Teykovo | 38 |
| Yedrovo | 43 |

4. The probable functions assigned to these buildings are based upon their location and partially upon the activity observed nearby. The function of some building types apparently depends upon the sub-area of the RTP in which they are located. For example, items 38 and 39 (type 1a) appear in two different areas. They are either in the ground support

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equipment (GSE) maintenance area or the receiving, inspection, and maintenance (RIM) facility. Item 38 is at all nine complexes but is in the GSE area at only Kostroma, Tatishchevo, and Teykovo. Item 39 is at seven complexes but is in the GSE area only at Kostroma and Tatishchevo.

A dispatch and driver-ready building (type 6) was identified at each RFP. This building is in the GSE maintenance area (item 21) at four complexes, in the SS-11 RIM facility (item 41) at three complexes, in the SS-7 RIM facility (item 72) at one complex, [redacted] The reason for the variety of locations is unknown.

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The number of some buildings varies from complex to complex. For example items 46, 57, 58, and 74 are all SS-11 propellant transporter garages, but no complex has all four. All complexes have item 58 and either item 46 or 47. A third garage (item 74) is at Drovyanaya, Svobodnyy, Tatishchevo, and Yedrovo.

The number of propellant disposal basins also varies. Only one propellant disposal basin has been constructed at the SS-11 propellant facility at Drovyanaya and Teykovo. All other SS-11 complexes have two sets of disposal basins.

SS-7 oxidizer and/or fuel transporter fill points apparently do not need to be present. They are at only four of the eight SS-7 propellant facilities and are not the same at each. At Kostroma and Teykovo, each position has two exposed tanks. At Svobodnyy, each position has an open shell over its tanks. At Perm, the oxidizer point has two exposed tanks while the fuel point is an earth-mounded area.

An unidentified area at the Tatishchevo complex contains buildings similar to those in an unidentified area previously reported at the SS-7 complexes and at the Kozelsk complex.

A few major buildings remained under construction when last observed. Item 41 -- in the SS-11 propellant facility -- varies from a foundation at Olovyanaya and Perm to being nearly complete at Drovyanaya, Gladkaya, Svobodnyy, and Tatishchevo.

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12. No technical support building (item 31) has been identified at the Gladkoye SS-7 RIM facility. A smaller two-story building (item 69) is adjacent to the RIM facility and could perform the functions normally handled in the larger building.

13. A large T-shaped building was under construction in the GSE area of the Svobodnyy RTP and a smaller T-shaped building was under construction near the training site access road at Kostroma. The buildings are indicated directly on the annotated photographs. The function of these two buildings has not been identified.

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14. The receiving areas at these nine complexes also differ. They have one, two, or three areas for the receipt of missiles and provisions. A general materials loading dock is present at each.

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15. Buildings of a non-missile-related function are also observed. These buildings are either in the general support area, training area, or near the entrance to the RTP. These buildings are shown on the attachments or listed in Table 1.

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16. The complement of missile ground support equipment assigned to each complex has been determined for the SS-11 complexes. The maximum number of GSE observed at each RTP is shown in Table 2. A number of factors hindered the accurate count of various items of GSE. These factors include the limited number of observations, the partial coverage of an area, the complexity of the complex, and the lack of vehicular observations during these missions.

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17. Therefore, the maximum number of observed equipment (Table 2) and the capacity of vehicle garages (shown in Table 1) will give only a rough estimate of overall strength.

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18. A complete listing of all item numbers is given in Table 3. This table lists the building types and the RTP at which the various items are located.

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1. For further information concerning this memorandum contact



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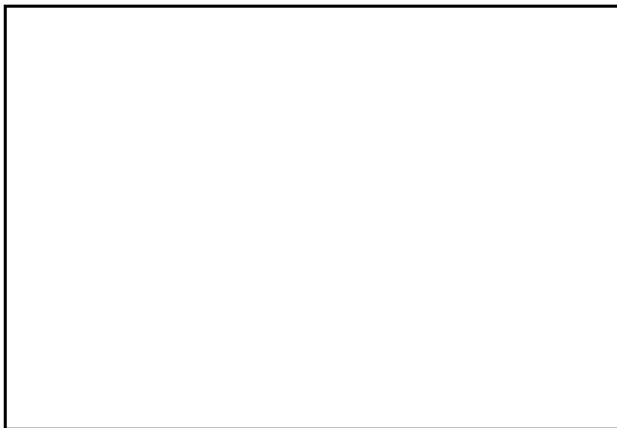


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Attachments:

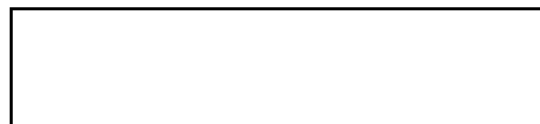
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